

TOP SECRET**PRIORITY 1**P 031705Z
FM NPIC

3 JUN 70 18 15 25X1

AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAF
CNO
OPCEN
FICENR

ZEM

TOP SECRET TTTT

CITE NPIC 8625

SUBJECT: CAMERA INFORMATION FOR MISSION 1110-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, DUAL STELLAR CAMERAS AND AN INDEX CAMERA.
2. CAMERA DATA

A. MAIN UNITS

FOCAL LENGTHS (MM) PAN CAMERAS

FWD 609.6508

AFT 609.6610

PORT HORIZONS

NA

NA

STBD HORIZONS

NA

NA

FILTERS

PAN FWD PRIMARY W -23A

PAN FWD ALTERNATE W -25

PAN AFT PRIMARY W -21

PAN AFT ALTERNATE W -23

FWD STBD HORIZON W -25

FWD PORT HORIZON W -25

AFT STBD HORIZON W -25

AFT PORT HORIZON W -25

APERTURE

STBD HORIZON F 8.0

PORT HORIZON F 6.3

FILM

FWD 3404/SO-349/3404

AFT 3404/SO-349/3404

DYNAMIC RESOLUTION (LINES/MM)

FWD HIGH CONTRAST 268

FWD LOW CONTRAST 159

AFT HIGH CONTRAST 243

AFT LOW CONTRAST 160

UNIT NUMBER FWD 323

AFT 322

B. DISIC UNIT NO. 10

PORT STELLAR

FOCAL LENGTHS (MM) 76.165

FILTER (WRITTEN) NONE

EXPOSURE (SEC) 1.5

FILM 3401

STBD STELLAR INDEX

76.171

NONE

1.5

3401

3. LENS DISTORTION (PIN CUSHION) (MM)

A. MAIN UNITS

ANGLE OFF AXIS (DEG) 3

FWD .004

2

.002

1

0

0

0

359

0

358

0

.001

.003

ADVANCE CY

LIMITED

.003

25X1

25X1

25X1

25X1

TOP SECRET

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AFT .001 0 0 0 0 .001 .002
 B. HORIZON CAMERA DISTORTION
 FWD PORT FWD STBD AFT PORT AFT STBD
 RADIAL 10 DEG .01 .01 .02 .01
 20 DEG .05 .03 .04 .05
 TANGENTIAL .016 .028 .025 .006

4. CAMERA ANGLES

A. ANGLE BETWEEN PAN CAMERAS NA

B. DEPRESSION ANGLES BETWEEN HORIZONS AND PAN CAMERAS NA

C. ANGLES BETWEEN STELLAR AND INDEX CAMERA

STBD STELLAR AND INDEX 100 DEG 00 MIN 43.0 SEC

PORT STELLAR AND INDEX 99 DEG 59 MIN 16.0 SEC

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND

6. IMAGE MOTION COMPENSATION DATA

PASSES	REF LEVEL	AMP LEVEL
1D, 4D	2	13
6D THRU 25D	1	13
37D THRU 40D	3	13
42D, 128D THRU 134	2	5
48D THRU 56D	2	6
57D THRU 59D	3	6
70D THRU 76D	3	7
85D THRU 90D	2	8
97D THRU 103D	2	9
106D	3	9
118D	3	10
121D THRU 123D	3	11
137D, 138D	3	5
145D	4	5
152D THRU 155D	4	6
167D	2	7

FOR ALL PASSES PRIMARY PERIOD 3998 SECONDS, SECONDARY PERIOD 2623
 SECONDARY RAMP FACTOR 0.057700

7. PROGRAM TIME DATA

PROGRAM ON TIME PROGRAM
 UP RAMP DURATION

PASS	DAY	HR	MIN	SEC	SEC	SEC
1D	20	23	01	18	1580	36
4D	21	03	25	45	1496	78
6D	21	06	30	20	2030	122
7D	21	08	00	41	2133	103
9AE	21	10	30	50	456	25
10D1	21	12	29	48	2276	86
10D2	21	12	40	54	2943	62
16D	21	21	16	58	2004	40
19D	22	01	35	38	1589	102
20D	22	03	04	14	1591	83
21D1	22	04	36	58	1841	63
21D2	22	04	38	46	1950	99
22D1	22	06	03	15	1705	293
22D2	22	06	09	57	2107	104
23D	22	07	36	08	1966	91
24D	22	09	04	22	1949	47
25D1	22	10	30	16	1792	80
25D2	22	10	36	11	2146	34
37D	23	04	14	21	1925	173

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39D	23	07	12	18	1987	134
40D	23	08	42	48	2113	42
42D	23	11	41	58	2039	72
48D	23	20	34	25	2060	30
53D	24	03	53	19	1806	134
54D	24	05	21	26	1776	45
55D	24	06	54	11	2025	41
56D	24	08	21	11	1930	97
57D 1	24	09	44	01	1584	110
57D 2	24	09	48	42	1865	139
58D	24	11	21	03	2089	39
59D 1	24	12	48	34	2024	73
59D 2	24	12	50	14	2123	85
70D	25	05	03	07	2048	110
72D	25	07	55	47	1783	164
73D 1	25	09	29	00	2066	35
73D 2	25	09	30	18	2144	89
74D 1	25	10	53	19	1812	92
74D 2	25	11	00	06	2219	86
74D 3	25	11	02	42	2375	36
76D	25	13	57	23	2237	84
85D	26	03	07	55	1913	82
87D	26	06	04	11	1854	79
88D	26	07	33	26	1893	163
89D 1	26	09	04	05	2016	35
89D 2	26	09	06	05	2136	47
89D 3	26	09	08	09	2261	47
90D	26	10	31	41	1955	65
97D	26	20	54	42	2133	52
102D 1	27	04	15	06	1990	49
102D 2	27	04	17	23	2128	67
103D	27	05	42	13	1905	39
106D	27	10	13	46	2233	104
118D	28	03	53	34	2116	79
121D	28	08	20	34	2218	96
122D 1	28	09	43	20	1878	163
122D 2	28	09	53	48	2506	72
123D	28	11	20	14	2388	57
128D	28	18	42	02	2081	62
129D	28	20	08	12	1932	67
134D	29	03	30	01	1863	98
137D	29	07	57	33	1973	92
138D	29	09	20	42	1647	58
145D	29	19	48	09	2106	39
152D	30	06	02	39	1801	148
153D 1	30	07	28	12	1625	85
153D 2	30	07	34	18	1991	175
154D 1	30	08	56	13	1597	79
154D 2	30	09	02	13	1958	33
154D 3	30	09	03	42	2047	37
155D 1	30	10	28	47	1843	211
155D 2	30	10	34	17	2173	36
167D	31	04	13	44	1904	187

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
9	116269.448	37669.8891	-
16	155150.431	76550.8651	.007

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25	210366.964	36367.3895	.009
32	240208.069	75208.4870	.007
41	286361.823	34962.2316	.009
48	325285.420	73885.8205	.008
57	371503.369	33702.7594	.010
64	410445.614	72645.9956	.009
73	456625.508	32425.8788	.011
81	500737.923	76538.2831	.011
89	4854.361	31125.6229	.009
97	49273.365	75544.6154	.011
106	95201.900	35073.1382	.012
113	134008.847	73880.0746	.011
122	180171.689	33642.9035	.013
129	218957.505	72428.7083	.011
138	265185.183	32254.3725	.014
145	304094.256	71165.4337	.012
154	350250.803	30921.9662	.014
161	389160.382	69831.5327	.012

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

NOTE: HORIZON CAMERAS FOCAL LENGTHS, ANGLE BETWEEN PAN CAMERAS, DEPRESSION ANGLES ARE NOT AVAILABLE AT THIS TIME.

GP-1

UNCLASSIFIED

EOM

GROUP ONE

(ALSO SENT TSO)

25X1